## WHAT IS CLAIMED IS:

## 1. A system, comprising:

a television tuner having at least one radiofrequency (RF) gain adjust amplifier and generating an intermediate frequency (IF) output signal;

at least one filter receiving the IF output signal and outputting a filtered IF output signal;

at least one demodulator demodulating an IF signal to provide a signal for display on a television display, wherein

the RF gain adjust amplifier receives, as input, the IF output signal when the system is in a terrestrial mode and at least one of: the filtered IF output signal, and a signal from the demodulator, when the system is in a cable mode.

- 2. The system of Claim 1, further comprising at least one IF gain adjust amplifier receiving at least one of: the IF output signal, and the filtered IF output signal, the IF gain adjust amplifier receiving, as input, an output signal from the demodulator.
  - 3. The system of Claim 2, wherein the demodulator is a digital demodulator.

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- 4. The system of Claim 1, wherein the demodulator is an analog demodulator, and the RF gain adjust amplifier receives, as input, the filtered IF output signal in a digital cable mode and a signal from the demodulator in an analog cable mode.
- 5. The system of Claim 1, further comprising a first power detection circuit including a first control voltage amplifier interposed between the tuner and the RF gain adjust amplifier and receiving the IF output signal and a second power detection circuit including a second control voltage amplifier interposed between the filter and the RF gain adjust amplifier and receiving the filtered IF output signal.
- 6. The system of Claim 5, further comprising a second switch receiving the outputs of at least one control voltage amplifier.
- 7. The system of Claim 1, further comprising a first power detection line connecting the IF output signal to a single second switch and a second power detection line connecting the filtered IF output signal to the single second switch.
- 8. A method for controlling a radiofrequency (RF) gain of a television system, comprising:

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when the television system is in a terrestrial mode, controlling the gain using an intermediate frequency (IF) signal output by a television tuner;

when the television system is in a digital cable mode, controlling the gain using a filtered IF signal output by a filter; and

when the television system is in an analog cable mode, controlling the gain using a signal output by a demodulator.

- 9. The method of Claim 8, wherein the filter is a SAW filter.
- 10. The method of Claim 8, wherein the gain is an RF gain and the acts of controlling are undertaken at least in a strong signal strength condition.
- 11. The method of Claim 10, comprising controlling an IF gain in a weak signal strength condition using the output of a demodulator.
- 12. The method of Claim 8, comprising using a switch to select the input to control the RF gain.
- 13. The method of Claim 12, comprising selecting which signal to use using the switch and then sending the signal to an amplifier to generate a gain control signal.

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- 14. The method of Claim 12, comprising generating respective control signals using respective amplifiers receiving the IF signal and filtered IF signal, and then selecting which control signal to use using the switch.
- 15. A system for controlling the radiofrequency (RF) gain of a television, comprising:

means for controlling an RF gain of the television;

means for generating an intermediate frequency (IF) signal;

means for filtering the IF signal to render a filtered IF signal; and

switch means for selecting which signal to send to the means for

controlling, based on a mode of the television.

- 16. The system of Claim 15, wherein when the television is in a terrestrial mode, the switch means selects the IF signal, and when the television is in a cable mode, the switch means selects at least one of: the filtered IF signal, and a signal from a demodulator.
  - 17. The system of Claim 16, comprising:

    means for controlling an IF gain of the television; and switch means for selecting which gain to control.

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